The connexion of the anthers into a tube has caused some ambiguity and difference of opinion, as to the place which this genus should occupy, in the Linnæan system. Linnæus placed it in his order Monogamia of the class Syngenesia. Most of our late botanists have very properly removed the plants of this order from the compound flowers, with which they have no natural affinity, to *Pentandria*, which place their number of stamens authorizes them to occupy. Pursh has placed the Lobelias under Monadelphia. The Natural order which contains them is the *Campanaceæ* of Linnæus and Jussieu.

The Lobelia inflata varies in height from six inches to two or three feet. The small plants are nearly simple, the large ones much branched. Root fibrous. Stem erect, in the full sized plant much branched, angular, very hairy. Leaves scattered, sessile, oval, serrate, veiny and hairy. Flowers in spikes or racemes, pedunculated, each one in the axil of a small leaf. Segments of the calyx linear, acute, standing on the germ, which is oval and striated. Corolla bluish purple, the tube prismatic and cleft above, the segments spreading, acute, the two upper ones lanceolate, the three lower ones oval. Anthers collected into an oblong, curved body, purple; filaments

white. Style filiform; stigma curved and inclosed by the anthers. Capsules two celled, turgid, oval, compressed, ten angled, covered with the calyx. Seeds numerous, small, oblong, brown.

The Lobelia inflata when broken, emits a milky juice. When chewed, it communicates to the mouth a burning, acrimonious sensation, not unlike the taste of green tobacco. It exhibits the following noticeable ingredients upon chemical examination. 1. An acrid principle. This is evident to the taste in the tincture, decoction, and distilled water. 2. Caoutchouc. Sulphuric ether dissolves more of the plant than alcohol, and acquires a higher colour. The solution in alcohol is scarcely rendered turbid by water, that in ether is disturbed by alcohol, and grows thick as the ether evaporates. 3. Extractive. No gummy or astringent qualities were manifested in my experiments.

The great acrimony of the leaves and capsules, combined with a narcotic property, appears to be the foundation of their medicinal power. Dr. Cutler informs us, that if the leaves be held for some time in the mouth, they produce giddiness and pain in the head, with a trembling agitation of the whole body, and at length bring on nausea and vomiting. These effects are analagous to

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